Assoc. Prof. Yakup Hundur

Personal Information

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International Researcher IDs
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ScopusID: 6505733494
Yoksis Researcher ID: 29853

Biography

He completed his BSc in Physics at Middle East Technical University (METU) with TÜBİTAK BAYG (Scientific and Technological Research Council of Turkiye) scholarship, and his Master's in Istanbul Technical University (ITU). He received his PhD in 2003 from the University of Greifswald, Germany, where Plasma Physics was discovered. He received his Associate Professorship in Atomic and Molecular Physics in 2015. He was at the Max-Planck Institute Wendelstein7-X (W7-X) fusion energy research complex as an invited visiting researcher in 2004. He has taken the Academy-Industry Cooperation project within the scope of European Union Horizon2020 and successfully completed it in 2016.

He has been working at ITU Physics Engineering Department since October 1992. He also worked as a Research Assistant at Greifswald University between 2000-2002.

He works and has published works in the fields of Atomic and Molecular Physics, Fusion Energy and Computational Physics.

Education Information

Doctorate, Ernst-Moritz-Arndt-Universitaet Greifswald, Faculty of Mathematics & Natural Sciences / Institute of Physics, Germany 1997 - 2003
Postgraduate, Istanbul Technical University, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1993 - 1995
Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1985 - 1992

Foreign Languages

English, C2 Mastery
German, C1 Advanced

Dissertations

Doctorate, Moleküler Dinamik Simülasyon Yöntemini Kullanarak Titanyumun Isısal Genleşme Katsayısını ve Sıçrama Süreçlerini Araştırma, Ernst-Moritz-Arndt-Universitaet Greifswald, 2003
Postgraduate, He^+ İyonunun İnce Yapı Aralığında Kesişmeyen Sinyaller, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 1995

Research Areas

Computer Sciences, Software, Soft Computing, Physics, Atomic and Molecular Physics, Atomic and Molecular Interactions, General Physics, Communication, Education, History and Philosophy, Nuclear physics, Nuclear Engineering and Nuclear Energy Studies, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Fen-Edebiyat, Fizik Mühendisliği, 2017 - Continues
Assistant Professor, Istanbul Technical University, Fen-Edebiyat, Fizik Mühendisliği, 2009 - 2017
Lecturer PhD, Istanbul Technical University, Fen-Edebiyat, Fizik Mühendisliği, 2005 - 2009
Research Assistant PhD, Istanbul Technical University, Fen-Edebiyat, Fizik Mühendisliği, 2003 - 2005
Research Assistant, Ernst-Moritz-Arndt-Universitaet Greifswald, Math.-Naturwiss. Fakultaet / Institut Für Physik, Institut F. Physik, 1997 - 2003
Research Assistant, Istanbul Technical University, Fen-Edebiyat, Fizik Mühendisliği, 1992 - 1997

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Numerical Analysis of Producing CNTs from Graphite by Thermal Processes**
Hundur Y., WARRIER M., SCHNEIDER R.
JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE, vol.8, no.11, pp.2327-2330, 2011 (SCI-Expanded)

II. **Molecular dynamics of thermal vibration effects: Ar + Ni(100) collision system**
Hundur Y., Guvenc Z. B., HIPPLER R.
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.15, no.4, pp.1103-1110, 2010 (SCI-Expanded)

III. **Dynamical analysis of sputtering at threshold energy range: Modelling of Ar+Ni(100) collision system**
Hundur Y., Guvenc Z. B., HIPPLER R.
CHINESE PHYSICS LETTERS, vol.25, no.2, pp.730-733, 2008 (SCI-Expanded)

IV. **Molecular dynamics study of a thermal expansion coefficient: Ti bulk with an elastic minimum image method**
Hundur Y., HIPPLER R., GUVENC Z.
CHINESE PHYSICS LETTERS, vol.23, no.5, pp.1068-1071, 2006 (SCI-Expanded)

V. **Sputtering yield and dynamical analysis of Ni(100) surface: A comparison of four different Ar-surface interaction potentials**
Guvenc Z., Hundur Y., HIPPLER R.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.164, pp.854-860, 2000 (SCI-Expanded)

Supported Projects

Hundur Y., Project Supported by Higher Education Institutions, High performence computing (HPC) simulation of liquid

steel, 2016 - 2018
Hundur Y., Project Supported by Higher Education Institutions, Modelling Of Physical Problems-Kick Of Meeting, 2015 - 2018
Hundur Y., Project Supported by Higher Education Institutions, Thermal Effects on Nickel, 2012 - 2018
Hundur Y., Project Supported by Higher Education Institutions, ISIL İŞLEMLER YOLUYLA CNT ÜRETİM : SAYISAL ANALİZ, 2010 - 2018
Hundur Y., Project Supported by Higher Education Institutions, Ar+Ni (100) Çarpışma Sisteminde Titreşim Etkilerinin Moleküler Dinamik Yöntemiyle İncelenmesi, 2008 - 2018
Hundur Y., Project Supported by Higher Education Institutions, Farklı Moleküler Dinamik Simülasyon Teknikleri Kullanarak Isısal genleşme Katsayısını Elde Edilmesi, 2006 - 2008

Metrics

Publication: 9
Citation (WoS): 17
Citation (Scopus): 18
H-Index (WoS): 3
H-Index (Scopus): 3

Non Academic Experience

Beykent Üniv., Mühendislik Mimarlık Fakültesi
Ernst-Moritz-Arndt Universitaet Greifswald